

P-660HWP-Dx

802.11g HomePlug AV ADSL2+ Gateway

Quick Start Guide

Version 3.40

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Edition 1



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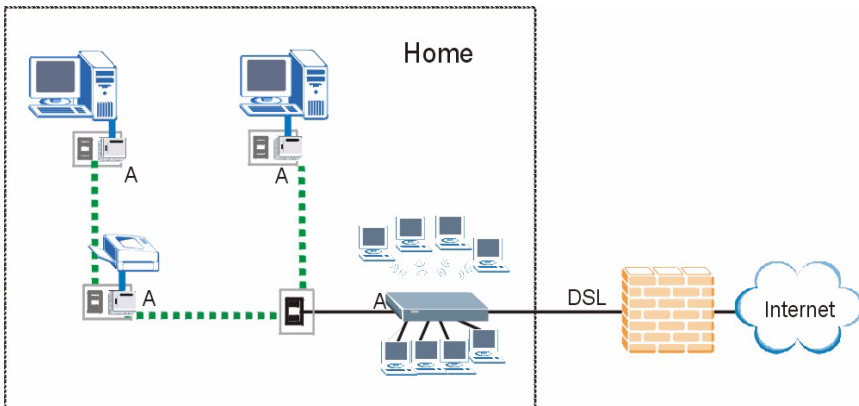
Overview

The P-660HWP-Dx is a gateway which combines high-speed ADSL Internet access, a built-in switch, a firewall, and HomePlug AV and high-speed wireless networking capability.

The figure below shows the P-660HWP-Dx connecting devices via a firewalled DSL connection to the Internet through:

- standard electrical wiring and HomePlug AV adapters ("A")
- wireless
- direct, wired connections using the P-660HWP-Dx's built-in switch.

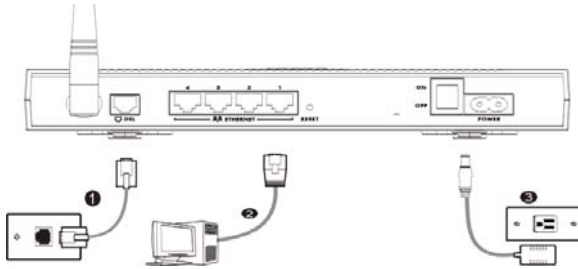
The P-660HWP-Dx is also a firewall, providing greater security for your local network(s).



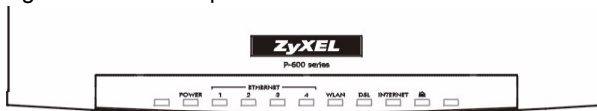
This Quick Start Guide shows you the most common settings for connecting to the Internet, configuring your wireless settings and setting up your HomePlug AV network. For more information on all features see your User's Guide on the CD that came in the package.

To read the User's Guide insert the CD that came in the box into your CD-ROM drive. A screen should pop up. Navigate to the User's Guide from this screen. If a screen does not pop up, open Windows Explorer (click My Computer), click on the CD-ROM drive (usually drive D:) and navigate to it from there.

1 Hardware Connections



- 1 DSL:** Use the gray telephone wire to connect your P-660HWP-Dx's **DSL** port to a telephone jack (or to the modem port on a splitter if you are using one).
- 2 ETHERNET:** Use the yellow Ethernet cable to connect a computer to an **ETHERNET** port on the P-660HWP-Dx for initial configuration and/or Internet access.
- 3 POWER:** Use only the power cable that came in the package to connect your P-660HWP-Dx to a power outlet. Make sure the power outlet is switched on. This socket will also act as your HomePlug AV connection.
- 4** Push in the **POWER** button.
- 5** Look at the lights on the front panel.



- The **POWER** light (LED) blinks while your P-660HWP-Dx starts up and stays on once it is ready.
- The **ETHERNET**, **WLAN**, **DSL**, **INTERNET** and **POWERLINE** LEDs turn on if the corresponding connections are properly made.



Check your connections if an LED does not turn on. Then turn the P-660HWP-Dx off, wait for a few seconds and turn it back on. See **Troubleshooting**. If the problem remains, contact your local vendor.

2 Internet Connection Setup: Automatic

Use this section to have your P-660HWP-Dx automatically detect and set up your Internet connection.

- 1 Open a browser such as Internet Explorer and go to your favorite website. Wait while your P-660HWP-Dx tries to detect your DSL connection to your ISP. This may take a few minutes.
- 2 After it detects the connection, the DSL light shows green on your device and the Internet light comes on when the Internet is ready for you to use. If you have a PPPoE connection, you will have to enter your user name and password.
- 3 Go to section 3 if you wish to configure your wireless settings using the wizard.
- 4 If you do not see the connection test screen, or the connection test is not successful, follow the instructions in the screen below, or check your connections and restart the P-660HWP-Dx.



3 Internet and Wireless Setup Wizard

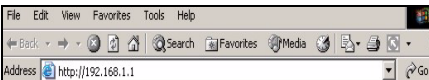
Use this wizard to connect to the Internet and configure your wireless settings

3.1 Log In to the Wizard

Default Login Information

IP address	http://192.168.1.1
administrator password	1234

- 1 Open a browser such as Internet Explorer and enter the following URL address: http://192.168.1.1



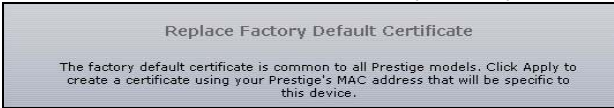
- 2 Type the admin password **1234** (default). Click **Login**.



- If your browser does not display the login screen, see **Troubleshooting** for details.
- 3 Type (and retype) a new password and click **Apply**. It is strongly recommended that you change the P-660HWP-Dx's password and write it down.
You have to use a new password other than the default password **1234**.

4 Enter your new password to log in again.

5 Click **Apply** in the screen below to create a new certificate for your P-660HWP-Dx. This screen will continue to appear until you apply this option.

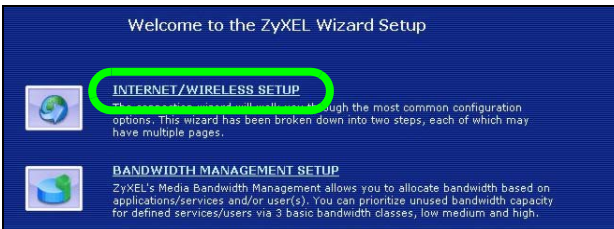


6 Select **Go to Wizard setup** in the screen below. Click **Apply** to access the Wizard.



3.2 Connect to the Internet Using the Wizard

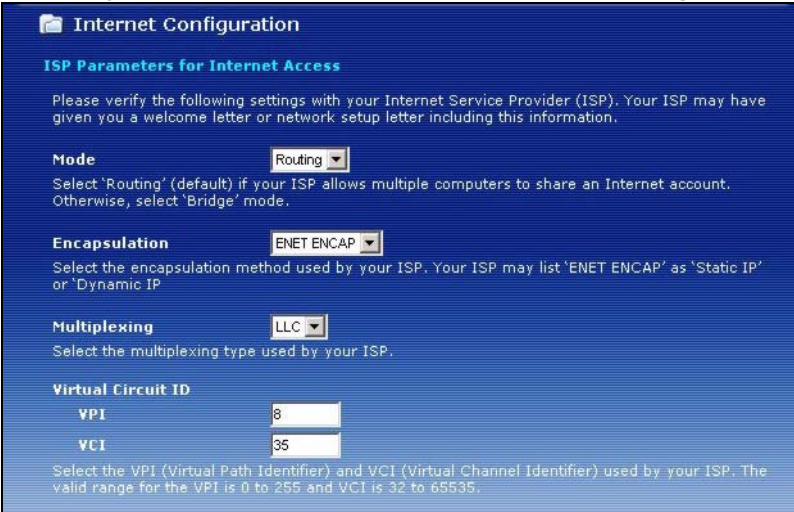
1 Click **INTERNET/WIRELESS SETUP**. The wizard autodetects your Internet connection.



- If the Internet connection test is successful, you are ready to use the Internet. Go to section 3.3 if you wish to configure your wireless settings using the wizard.
- If no DSL connection is detected, see **Troubleshooting**.
- If no ISP settings are detected, click **Next** in the current screen to go to the screen below.

2 Enter your Internet connection information exactly as provided by your ISP in the screen below and click **Next**.

- If you do not see the screen below, or your ISP has given you Internet access settings not available on this screen, see **Troubleshooting**.



Internet Configuration

ISP Parameters for Internet Access

Please verify the following settings with your Internet Service Provider (ISP). Your ISP may have given you a welcome letter or network setup letter including this information.

Mode

Select 'Routing' (default) if your ISP allows multiple computers to share an Internet account. Otherwise, select 'Bridge' mode.

Encapsulation

Select the encapsulation method used by your ISP. Your ISP may list 'ENET ENCAP' as 'Static IP' or 'Dynamic IP'.

Multiplexing

Select the multiplexing type used by your ISP.

Virtual Circuit ID

VPI

VCI

Select the VPI (Virtual Path Identifier) and VCI (Virtual Channel Identifier) used by your ISP. The valid range for the VPI is 0 to 255 and VCI is 32 to 65535.

- 3** In the next screen, select either **Obtain an IP Address Automatically** or **Static IP Address**. If you select **Static IP Address** then fill out the required fields based on the information provided by your ISP and click **Apply**.
- 4** If the Internet connection test is successful, either browse to your favorite website (such as www.zyxel.com) or click **Next** on your screen to go to section 3.3 to configure your wireless settings.

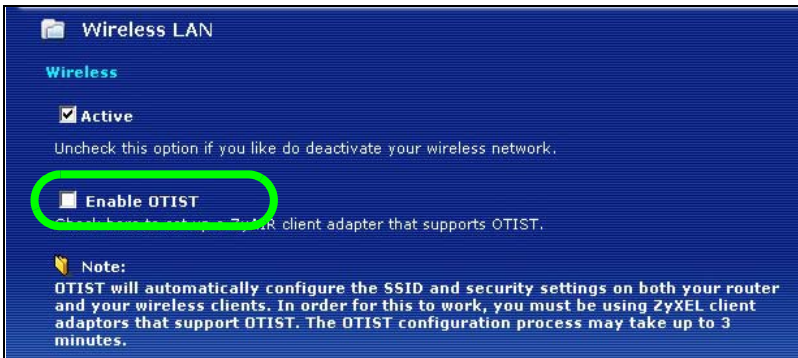
3.3 Configure your Wireless Settings Using the Wizard

To create a wireless network the P-660HWP-Dx and your wireless computer(s) must all use the same SSID (network name), channel and security settings.

If you do not set wireless security then anyone within range could use your P-660HWP-Dx to access your network and the Internet.

Choose WPA-PSK wireless security if your wireless device supports it as it is stronger than WEP.

- 1 Select **Active** and click **Next** to continue. It is strongly recommended that **Enable OTIST** is NOT selected. See the Users' Guide for more information on OTIST.



Wireless LAN

Wireless

☒ **Active**

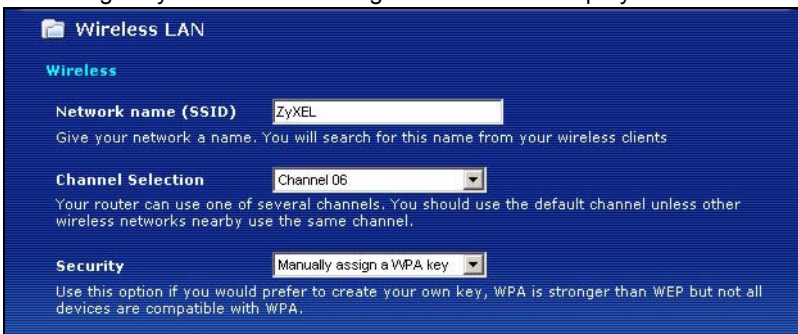
Uncheck this option if you like do deactivate your wireless network.

☐ **Enable OTIST**

Check how to setup a ZyXEL client adapter that supports OTIST.

Note:
OTIST will automatically configure the SSID and security settings on both your router and your wireless clients. In order for this to work, you must be using ZyXEL client adaptors that support OTIST. The OTIST configuration process may take up to 3 minutes.

- 2 Configure your wireless settings in the screen displayed. Click **Next**.



Wireless LAN

Wireless

Network name (SSID) : ZyXEL

Give your network a name. You will search for this name from your wireless clients

Channel Selection : Channel 06

Your router can use one of several channels. You should use the default channel unless other wireless networks nearby use the same channel.

Security : Manually assign a WPA key

Use this option if you would prefer to create your own key, WPA is stronger than WEP but not all devices are compatible with WPA.

- 3 If you select either **WEP** or **WPA-PSK** security (recommended), then follow the directions to enter the appropriate key. Click **Next** to continue and **Apply** to save your wireless LAN settings.
- 4 Check your configuration in the screen below and write down your wireless LAN settings for later use.



CONGRATULATIONS!

The Internet/Wireless Setup configuration is complete. Here is your current settings.

Internet Settings

Mode : Routing
Encapsulation : Ethert Encap
Multiplexing : VC
VPI/VCI : 0/33

Wireless LAN Settings

Network Name(SSID) : ZyXEL
Channel : 6
Security : Manually assigned a WEP key/Automatically configured a WPA key/Manually assigned a WPA key/Disabled wireless security
Network Key(WPA/WEP Key) : 12345

Press "Finish" button to close this wizard, or click the following link to open other pages page.

[Return to Wizard Main Page](#)
[View device Status](#)

- 5** Click **Finish** to complete and save the wizard setup. Your Internet connection is ready for you to use. Open a browser such as Internet Explorer and navigate to a website.

4 Setting Up a Wireless Network

To set up a wireless network you need at least one wireless network card/adaptor.


- If you have a desktop computer, use either a wireless USB adapter or a wireless PCI adapter.
- If you have a laptop, use either a wireless USB adapter or a wireless CardBus card. These are built into many laptops.

To add a computer to your network you need to configure your wireless-enabled computer with the same SSID, channel and security settings as the P-660HWP-Dx.

Alternatively, use OTIST, ZyXEL's One-Touch Intelligent Security Technology (OTIST) feature. It allows you to automatically configure the SSID and WPA-PSK on all OTIST-equipped wireless clients within range of the P-660HWP-Dx. See the Wireless LAN chapter in the Users' Guide for more information on OTIST.

5 HomePlug AV Network Setup

Follow these steps to set up your HomePlug AV network on standard electrical wiring with a new password.

- 1** Plug your P-660HWP-Dx and other HomePlug AV devices into power outlets and turn them on. Your P-660HWP-Dx will try to detect other HomePlug AV devices on the same electrical wiring.
- 2** Check the **POWERLINE** () LED for a HomePlug AV connection.
 - If the LED does not display, your device has a problem detecting another HomePlug AV device. Go to **Troubleshooting** for more information.
 - If the LED light is green, the P-660HWP-Dx detects other HomePlug AV devices and you are ready to set up your network.

You need to configure the power line settings of the P-660HWP-Dx, as well as the power line settings of the other devices you wish to add to your network.

- 3** Go to **Network > Powerline > Local Setting** to configure the P-660HWP-Dx's power line settings.
 - Select **Enable Powerline**.

- Type the **Network Password** for your network. This will connect you to other HomePlug AV devices which have the same password and allow you to configure them. **HomePlugAV** is the default password for ZyXEL HomePlug AV devices.
- You do not need to type the Device Access Key (DAK) for the P-660HWP-Dx unless you want to change it.
- Click **Apply**.

4 Go to **Network > Powerline > Remote Setting** to make a new network with a new **Network Password** and add the other HomePlug AV devices to your new network.

- Select a device listed in **Remote Stations In The Same Network** and type a new **Network Password**.
- Type the Device Access Key (DAK) in the **Login Remote Device Access Key** field. The DAK identifies each device. For ZyXEL HomePlug AV products the DAK is on an attached label. Click **Apply**. The device disappears from the list of **Remote Stations In The Same Network**. With a different password it now is on a different network.
- Repeat for all devices you want to add to your network.

5 Go back to **Network > Powerline > Local Setting** to change your P-660HWP-Dx's **Network Password** to the new one and connect it to your new HomePlug AV network. Type your new **Network Password** and click **Apply**.

6 Check the other devices you selected previously are now on the list of **Remote Stations In The Same Network** by going to **Network > Powerline > Remote Setting**. If all devices are correctly listed, your HomePlug AV network is now ready for use.

Troubleshooting



If you cannot access the web configurator check the following.

- 1 Your computer may be set to use a static IP address in a different subnet from the ZyXEL device. See the User's Guide for information on setting up your IP address.
- 2 If you are using Internet Explorer in Windows XP or Windows Server 2003, make sure you allow pop-up windows, JavaScript and Java permissions or set the Internet security level lower than **High** in Internet Explorer (in Internet Explorer, click **Tools > Internet Options > Security > Custom Level...**). See the appendix in the User's Guide for more information.



If the Internet/Wireless Setup Wizard cannot detect a DSL connection check the following.

- 1 Check your connections and restart the device.
- 2 Contact your ISP to check the status of your account.



If you do not see the ISP Parameters for Internet Access screen when you run the Internet/Wireless Wizard, follow these steps.

- 1 Log in to the P-660HWP-Dx's web configurator. (See section 3.1.)
- 2 Select **Go to Advanced setup** and click **Apply**.
- 3 The **Status** screen appears. Click **Network > WAN** in the navigation panel on the left of the screen.
- 4 Ensure that the settings in this screen are the same as those your ISP gave you. If your ISP gave you a static IP address to use, select **Static IP Address** in the **IP Address**

section and enter it in the **IP Address** field. If not, select **Obtain an IP Address Automatically**. Click **Apply** and run the **Internet/Wireless Setup** wizard again.

General

Name: MyISP

Mode: Routing

Encapsulation: Ethernet Encap

Multiplexing: LLC

Virtual Circuit ID: 8

VPI: 35

VCI: 35

IP Address

☒ Obtain an IP Address Automatically

☐ Static IP Address


IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway IP address: 0.0.0.0



If you have a DSL connection and have entered your ISP settings, but you cannot access the Internet, follow these steps.

- 1 Check you have correctly entered the information your ISP gave you.
- 2 If you are using **Bridge** mode (check **Mode** in the **Network > WAN > Internet Connection** screen) click **NAT > General** and ensure **Active Network Address Translation (NAT)** is not selected. Click **LAN > DHCP Setup** and ensure that **DHCP** is set to **None**. Your ISP gives your computer an IP address directly. If you want to access the P-660HWP-Dx again, you need to use a static IP address in the same subnet as your P-660HWP-Dx (the P-660HWP-Dx's default IP LAN address is http://192.168.1.1).
- 3 Click the wizard icon (). Run the **Internet/Wireless Setup** wizard again.
- 4 Contact your Internet Service Provider to check the status of your account.
- 5 If you still have problems, see **Troubleshooting** in the User's Guide.




If you cannot access the Internet using the wireless network, do the following.

On a computer connected to the P-660HWP-Dx, make sure your P-660HWP-Dx and the computers on your wireless network are using the same SSID, channel and wireless security settings. See the chapter on Wireless LAN in the User's Guide for more information.



If you cannot access your HomePlug AV network, try the following:

- 1 Make sure that the network password is the same on all of your HomePlug AV adapters and that the DAKs for your HomePlug AV devices are typed correctly.
- 2 Make sure that all the power line adapters you are using are HomePlug AV compliant. The P-660HWP-Dx does NOT recognize earlier versions of HomePlug adapters such as HomePlug 1.0 or 1.0.1.
- 3 Plug a second HomePlug AV adapter into an adjacent outlet (to your P-660HWP-Dx) and see if the **POWERLINE**  LED lights up. This checks whether the P-660HWP-Dx can detect the power line adapters on your electrical circuit.

Viewing Your Product's Certifications

- 1 Go to www.zyxel.com.
- 2 Select your product from the drop-down list box on the ZyXEL home page to go to that product's page.
- 3 Select the certification you wish to view from this page.

